



UTILITY PATENT APPLICATION TRANSMITTAL

MAIL STOP PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Customer No. 23696
Attorney Docket No.: 030289
Date: January 8, 2004
Express Mail Label No.: EV 384115927 US



Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): Rajiv Vijayan, Alok Kumar Gupta and Raghuraman Krishnamoorthi

For: Frequency Error Estimation And Frame Synchronization In An OFDM System

Enclosed are:

1. ☒ Patent application (29) total pages.
2. ☒ Drawings: ☒ Formal (8) sheet(s) or ☐ Informal () sheet(s).
3. ☒ Declaration/Power of Attorney: ☒ Signed ☐ Unsigned
4. ☐ This application claims priority from Application Serial No. , Filed , Status .
5. ☒ An Assignment (2) pages and Recordation Form Cover Sheet.
6. ☐ A Preliminary Amendment () pages.
7. ☐ Information Disclosure Statement (IDS):
 - a. ☐ PTO-1449
 - b. ☐ Copies of IDS Citations (number of citations:)
8. ☐ Other:

CLAIMS:	(a) Filed	(b) Extra Claims	Large Entity Fee	Fee Paid
Total*	32 - 20	12	x \$18 =	\$216
Independent**	10 - 3	7	x \$86 =	\$602
Multiple Dependent Claim(s): <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes			\$290	\$
APPLICATION FILING FEE			\$770	\$770
			TOTAL FEE	\$1588

*If the number in column a is less than 20, enter 0 in column b.

**If the number in column b is less than 3, enter 0 in column b.

9. ☐ A check in the amount of \$_____ is enclosed to pay the filing fee.
10. ☒ Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of \$1588. The Commissioner is hereby authorized to charge payment of any additional fees which may be required, or credit any overpayment, to said Deposit Account No. 17-0026. A duplicate of this sheet is enclosed for fee processing.
11. ☒ The Commissioner is further hereby authorized to charge to said Deposit Account No. 17-0026, pursuant to 37 CFR 1.25(b), any fee whatsoever which may become properly due or payable, as set forth in 37 CFR 1.16 to 37 CFR 1.18 inclusive, for the entire pendency of this application without specific additional authorization.

Date: January 8, 2004

Signature: [Signature] Reg. No. 45,288 for
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